ABSTRACT

The present invention is related with the Microbiology field and particularly with a composition and a method for early detection, identification, differentiation and count of microscopic organisms, concretely Gram-negative microorganisms.

The composition described in the invention consist on a mixture of substances of protein origin with a total nitrogen content from 9 to 20 % and in relationship between 2: 1 to 24: 1, concerning to the content of inhibitors of the Gram-positive organisms. It contains a mixture of organic and inorganic substances that facilitate the differentiation of the Gram-negative organisms, being this mixture in a relationship from 0.5: 1 to 2: 1 concerning to the mixture of substances of protein origin.

The referred composition allows the detection and differentiated count of *E. coli* and other coliform organisms due to the blue-greenish color of the colonies of these microorganisms on the orange bottom of the medium; *Salmonella* not *typhi* for the red color of the centers of the colonies on rosy bottom of the medium; *Salmonella typhi* and *Proteus* for the transparency of the colonies; *Citrobacter* and *Klebsiella* for the violet color of the colonies on the pink to orange bottom of the medium and *Pseudomonas aeruginosa* for the orange color with darker center of the colony, taking greenish pigmentation after 24 hours and producing greenish fluorescence under low ultraviolet light.